UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/566,826	01/31/2006	Akio Kimura	06067/HG	8012
	7590 03/15/201 CZ, GOODMAN & CH		EXAM	IINER
220 Fifth Avenue VU, JAKE MINH			E MINH	
16TH Floor NEW YORK, N	NY 10001-7708		ART UNIT	PAPER NUMBER
			1618	
			MAIL DATE	DELIVERY MODE
			03/15/2011	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)	
	10/566,826	KIMURA ET AL.	
Office Action Summary	Examiner	Art Unit	
	JAKE VU	1618	
The MAILING DATE of this communication ap Period for Reply	opears on the cover sheet wi	th the correspondence addres	s
A SHORTENED STATUTORY PERIOD FOR REPI WHICHEVER IS LONGER, FROM THE MAILING I - Extensions of time may be available under the provisions of 37 CFR 1 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statu Any reply received by the Office later than three months after the maili earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNIC .136(a). In no event, however, may a red d will apply and will expire SIX (6) MON te, cause the application to become AB	CATION. Sply be timely filed THS from the mailing date of this commur ANDONED (35 U.S.C. § 133).	
Status			
1) ☐ Responsive to communication(s) filed on 14 so 2a) ☐ This action is FINAL . 2b) ☐ This action is application is in condition for allowed closed in accordance with the practice under	is action is non-final. ance except for formal matt	·	rits is
Disposition of Claims			
4) ☑ Claim(s) 8.9.12 and 14 is/are pending in the a 4a) Of the above claim(s) 8 and 9 is/are withd 5) ☐ Claim(s) is/are allowed. 6) ☑ Claim(s) 12 and 14 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/	Irawn from consideration.		
Application Papers			
9) The specification is objected to by the Examination The drawing(s) filed on is/are: a) acceptable and applicant may not request that any objection to the Replacement drawing sheet(s) including the correction of the oath or declaration is objected to by the Examination is objected.	cepted or b) objected to be drawing(s) be held in abeyan ction is required if the drawing	ce. See 37 CFR 1.85(a). s) is objected to. See 37 CFR 1.	
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for foreig a) All b) Some * c) None of: 1. Certified copies of the priority documer 2. Certified copies of the priority documer 3. Copies of the certified copies of the priority documer application from the International Burea * See the attached detailed Office action for a list	nts have been received. nts have been received in A ority documents have been au (PCT Rule 17.2(a)).	pplication No received in this National Stag	e
Attachment(s)	🗖 s		
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 	Paper No(s	ummary (PTO-413))/Mail Date formal Patent Application 	

Application/Control Number: 10/566,826 Page 2

Art Unit: 1618

DETAILED ACTION

Receipt is acknowledged of Applicant's Request for Continued Examination filed

on 09/14/2010; and Amendment filed on 08/27/2010.

• Claim 12 has been amended.

Claim 14 has been added.

Claims 10-11 and 13 have been cancelled.

Claims 8-9, 12 and 14 are pending in the instant application.

• Claims 8-9 have been previously withdrawn from consideration.

Continued Examination Under 37 CFR 1.114

A request for continued examination under 37 CFR 1.114, including the fee set

forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this

application is eligible for continued examination under 37 CFR 1.114, and the fee set

forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action

has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on

09/14/2010 has been entered.

Claim Rejections - 35 USC § 112

The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall

set forth the best mode contemplated by the inventor of carrying out his invention.

Claims 10-11 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement, pertaining to prostaglandin F2 α with a fluorine atom derivatives, **are withdrawn** in view of Applicant's cancellation of the claims 10-11.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 12 and 14 are rejected under 35 U.S.C. 103(a) as being unpatentable over MORISHIMA et al (WO 02/22131 published on 03/21/2002; wherein US 2004/0097592 is used as a translation) in view of KOIDE et al (JP 07-033650; translation provided).

Applicant's claims are directed to a product comprising of: prostaglandin F2 α derivative having a fluorine atom, such as 16-phenoxy-15-deoxy-15,15-difluoro-17,18,19,20-tetranorprostaglandin F2 α ; a resin container formed from a polymer alloy of polyethylene terephthalate and polyarylate. Additional limitations include: liquid preparation; ratio of 1:2 to 2:1; inhibiting the decrease of the prostaglandin F2 α derivative.

MORISHIMA teaches a product comprised of: prostaglandin F2α derivative having a fluorine atom, such as 16-phenoxy-15-deoxy-15,15-difluoro-17,18,19,20-

tetranorprostaglandin F2 α (see US 2004/0097592 at [0024]); nonionic surfactant, such as polysorbate 80 (see [0004]); a resin container, such as a polymer of polyethylene terephthalate or acrylic resin (see [0014]). Additional disclosures include: ophthalmic solution (see [0001]), which reads on liquid preparation; inhibiting the active ingredient to be adsorbed to a resinous container (see abstract).

MORISHIMA does not specifically teach a resin container containing a copolymer of polyethylene terephthalate AND polyarylate with a ratio of 1:2 to 2:1.

KOIDE teaches using a resin container containing polyethylene terephthalate AND polyarylate (see translation at [0009]) for eye drop solutions containing nonionic surfactant (see [0006]). Additional disclosures include: the resin inhibits photolysis of the active ingredient (see [0001]) and inhibits the transference and adhesion of the active ingredient to the container (see [0002]); thus inhibiting the decrease of the active ingredient (see [0003]), which is the same objective as MORISHIMA and Applicant's claimed invention.

It would have been obvious to the person of ordinary skill in the art at the time the invention was made to incorporate MORISHIMA's ophthalmic product into KOIDE's resin container containing a polymer alloy of polyethylene terephthalate AND polyarylate. The person of ordinary skill in the art would have been motivated to make those modifications, because it is known that the resin container inhibits photolysis of ophthalmic drug and inhibits the transference and adhesion of the drug to the container; thus inhibiting the decrease of the active drug. The person of ordinary skill in the art reasonably would have expected success because both reference dealt with inhibiting

the decrease of active agents in eye drop formulation using non-ionic surfactant and resin containers.

The references do not specifically teach adding the ingredients in the ratio amount as claimed by Applicant. The amount of a specific ingredient in a polymer is clearly a result effective parameter that a person of ordinary skill in the art would routinely optimize. Optimization of parameters is a routine practice that would be obvious for a person of ordinary skill in the art to employ and reasonably would expect success. It would have been customary for an artisan of ordinary skill to determine the optimal amount of ratio in order to best achieve the desired results. Thus, absent some demonstration of unexpected results from the claimed parameters, this optimization of ingredient amount would have been obvious at the time of Applicant's invention.

Response to Arguments

Applicant argues that Morishima et al. reference (WO 02/22131) discloses an invention which focuses on additives of an eye drop, and discloses that the absorption of prostaglandin derivatives on a resin container can be inhibited by adding an additive (polysorbate 80 or ethylenediamine-tetraacetate) to an eye drop comprising prostaglandin derivatives. Whereas the presently claimed invention is characterized in using a polymer alloy of polyethylene terephthalate and polyarylate in a particular ratio range as a material for a container for an eye drop to inhibit a decrease of the content of specific prostaglandin F2a derivatives. The Koide et al. reference (JP 7-33650) is characterized in that vitamin A is contained in a container made of polyethylene

Art Unit: 1618

terephthalate, containing a pigment or pigments and a U-polymer (polyarylate), to inhibit the migration of vitamin A, which is unstable in light. Thus, since the container of Koide et al. (JP 7-33650) includes vitamin A, whereas the container of the presently claimed invention includes 16-phenoxy-15-deoxy-15,15-difluoro-17,18,19,20-tetranorprostaglandin F2alpha, it is clear that the chemicals in the respective containers include compounds that have completely different chemical structures and chemical properties. Furthermore, Koide et al. describe in paragraph [0008] that the fourth essential constituent of Koide et al. is a pigment which may have a high light shielding effect, such as tinuvin or anthraquinone yellow dye. Koide et al. also disclose that when the light shielding wavelength is less than 380nm, even after the addition of the pigment, the vitamin A therein decreases significantly after a long period.

Moreover, as is clear from Table 2 of Koide et al. (JP 7-33650), although Comparative Example 4 includes polyethylene terephthalate and a U-polymer as materials of a container, the concentration (residual ratio) of vitamin A is merely 26%. Considering that Koide et al. describe the comparison as an example, wherein no stabilizing effect of vitamin A is exhibited, it is respectfully submitted that from the disclosure of Koide et al., one of ordinary skill in the art would not consider to replace the vitamin A of Koide et al. with 16-phenoxy-15-deoxy-15,15-dif1uoro-17,18,19,20-tetranorprostagland F2 alpha.

In response to applicant's arguments against the references individually, one cannot show nonobviousness by attacking references individually where the rejections are based on combinations of references. See *In re Keller*, 642 F.2d 413, 208 USPQ 871 (CCPA 1981); *In re Merck & Co.*, 800 F.2d 1091, 231 USPQ 375 (Fed. Cir.

Application/Control Number: 10/566,826 Page 7

Art Unit: 1618

1986). In this case, the primary reference teaches Applicant's prostaglandin F2α derivative and the secondary reference teaches the Applicant's resin container formed from a polymer alloy of polyethylene terephthalate and polyarylate, wherein the resin container protects the ophthalmic drug. It would have been obvious to one skilled in the art to place the prostaglandin derivative into the resin container, since it is known that the resin container inhibits photolysis of the ophthalmic drug and inhibits the transference and adhesion of the drug to the container; thus inhibiting the decrease of the active drug, which is the same objective as Applicant's claimed invention.

Art Unit: 1618

Telephonic Inquiries

Any inquiry concerning this communication or earlier communications from the

Page 8

examiner should be directed to JAKE VU whose telephone number is (571)272-8148.

The examiner can normally be reached on Mon-Tue and Thu-Fri 8:30AM-5:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Michael Hartley can be reached on (571) 272-0616. The fax phone number

for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the

Patent Application Information Retrieval (PAIR) system. Status information for

published applications may be obtained from either Private PAIR or Public PAIR.

Status information for unpublished applications is available through Private PAIR only.

For more information about the PAIR system, see http://pair-direct.uspto.gov. Should

you have questions on access to the Private PAIR system, contact the Electronic

Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a

USPTO Customer Service Representative or access to the automated information

system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Jake M. Vu/

Primary Examiner, Art Unit 1618